

GILA RIVER BASIN

09489500 BLACK RIVER BELOW PUMPING PLANT, NEAR POINT OF PINES, AZ

LOCATION--Lat 33°28'36", long 109°45'48", in W sec. 32, T.2 N., R.25 E. (unsurveyed), Graham County, Hydrologic Unit 15060101, in San Carlos Indian Reservation, on left bank 0.9 mi downstream from Phelps Dodge Corp. pumping plant, 1.3 mi downstream from Freezeout Creek, 8 mi northwest of Point of Pines, and 63 mi upstream from confluence with White River

DRAINAGE AREA - 560 mi²

PERIOD OF RECORD -- June 1953 to current year

GAGE--Water-stage recorder. Elevation of gage is 5,725 ft above sea level, from topographic map.

REMARKS.—Records good, no estimated daily discharges. Water is diverted at pumping plant 0.9 mi upstream and pumped into headwaters of Willow Creek (tributary of Eagle Creek) for mining, metallurgical treatment of ores, and domestic supply in vicinity of Morenci. (See sta 09445000.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,900 ft³/s Oct. 19, 1972, gage height, 18.0 ft, from floodmarks, from rating curve extended above 5,000 ft³/s; minimum daily, 2.6 ft³/s, July 5, 1974.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 13	1330	1,150	4.90
Apr. 12	1245	722	4.28
July 15	1700	*2,420	*6.39

Minimum daily discharge, 22 ft³/s., June 8-10; Aug. 1 and 30; and Sept. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	25	43	45	44	87	297	133	30	29	22	30
2	29	25	41	42	51	83	312	123	27	26	25	28
3	29	28	41	39	44	88	404	112	26	24	27	27
4	33	30	37	39	46	87	436	105	25	23	23	40
5	33	31	36	44	54	114	418	100	24	23	26	41
6	31	31	37	45	47	127	410	96	23	25	27	38
7	30	30	40	43	56	202	498	92	23	26	25	33
8	34	30	42	38	66	338	549	89	22	26	23	27
9	42	31	45	37	56	534	579	87	22	26	24	23
10	52	32	39	41	56	701	615	84	22	28	27	22
11	43	32	37	37	54	704	659	80	24	30	27	25
12	38	36	38	38	45	797	683	76	25	35	29	26
13	34	117	41	40	46	977	594	73	25	34	35	26
14	33	364	37	38	44	981	527	69	25	35	35	25
15	31	194	36	42	43	974	469	63	24	152	31	25
16	30	135	45	44	41	943	425	58	24	58	35	24
17	29	108	47	46	42	868	391	54	24	44	42	24
18	28	92	48	45	42	828	362	51	24	43	69	27
19	27	81	57	42	53	807	332	48	23	39	53	37
20	26	73	55	42	71	768	304	45	23	35	41	43
21	26	66	41	43	98	755	281	43	23	34	35	45
22	25	61	38	41	92	779	259	40	23	34	33	36
23	25	56	45	42	82	764	234	39	25	36	30	29
24	25	47	35	43	83	747	222	38	28	39	30	26
25	25	41	36	48	72	708	204	36	27	44	31	26
26	25	55	37	50	67	634	186	35	27	42	29	26
27	25	49	40	41	74	557	170	34	27	40	27	27
28	25	42	38	43	95	480	159	34	27	40	25	28
29	25	38	28	53	97	412	148	32	27	41	23	28
30	25	40	46	46	---	353	141	31	29	34	22	28
31	25	---	45	41	---	317	---	31	---	24	24	---
TOTAL	937	2020	1271	1318	1761	17514	11268	2031	748	1169	955	890
MEAN	30.2	67.3	41.0	42.5	60.7	565	376	65.5	24.9	37.7	30.8	29.7
MAX	52	364	57	53	98	981	683	133	30	152	69	45
MIN	25	25	28	37	41	83	141	31	22	23	22	22
AC-FT	1860	4010	2520	2610	3490	34740	22350	4030	1480	2320	1890	1770
CFSM	0.05	0.12	0.07	0.08	0.11	1.01	0.67	0.12	0.04	0.07	0.06	0.05
IN.	0.06	0.13	0.08	0.09	0.12	1.16	0.75	0.13	0.05	0.08	0.06	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004 BY WATER YEAR (WY)

MEAN	105	90.8	115	138	226	542	691	272	59.7	43.1	103	86.1
MAX	1211	505	915	1571	1036	1863	2253	1933	244	122	509	385
(WY)	1973	1995	1979	1993	1980	1985	1979	1973	1973	1965	1999	1963
MIN	13.6	22.7	20.0	23.0	34.7	30.1	27.0	22.5	9.84	14.1	18.2	9.36
(WY)	1954	1954	1954	1996	1974	1996	2002	1996	1974	1989	1962	1956

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1954 - 2004

ANNUAL TOTAL	52748		41882			
ANNUAL MEAN	145		114		206	
HIGHEST ANNUAL MEAN					617	1993
LOWEST ANNUAL MEAN					38.0	1996
HIGHEST DAILY MEAN	1050	Mar 17	981	Mar 14	11000	Oct 20 1972
LOWEST DAILY MEAN	20	Jul 9	22	Jun 8	2.6	Jul 5 1974
ANNUAL SEVEN-DAY MINIMUM	22	Jul 4	23	Jun 5	5.4	Sep 16 1956
ANNUAL RUNOFF (AC-FT)	104600		83070		148900	
ANNUAL RUNOFF (CFSM)	0.258		0.204		0.367	
ANNUAL RUNOFF (INCHES)	3.50		2.78		4.99	
10 PERCENT EXCEEDS	477		372		552	
50 PERCENT EXCEEDS	49		40		56	
90 PERCENT EXCEEDS	25		25		24	